KBL

Tower *mon amie*

Operating Instructions

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For instruction updates, please refer to http://www.kbl-support.de.

KBL AG
Ringstrasse 24-26 · 56307 Dernbach · Germany
Telephone +49(0)2689.9426-0 · Fax +49(0)2689.9426-66
Email: mon-amie@kbl.de

www.kbl.de

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General information

About these instructions

This operating manual is intended for use by

- operating staff,
- users,
- service staff.

Any person dealing with this tanning unit must have read and understood these instructions.

This manual describes units equipped with the maximum number of features.

Keep this manual ready to hand at all times.

Transport by forklift truck

The device is mounted on a pallet.

- Insert the forks carefully into the openings of the pallet.
- Lift the load by a few centimetres.
- Transport the load carefully to the place of installation.

DANGER

Overturning load!
Danger of being crushed by heavy parts of the equipment.

- **Wear safety shoes.**

Other modes of transport

If a forklift truck cannot be used for transport, the box must be unpacked and the parts inside must be transported individually to the place of installation, e.g. using a dolly. Depending on the weight of the components, lifting them might require several people.

Old equipment disposal

This device consists of components that cannot be thrown into the household garbage!

Dispose of your old equipment in an environmentally friendly manner after the end of its useful life. Metals and plastics can be recycled. Electrical and electronic components must be disposed of as e-waste. Fluorescent lamps must be dropped off at authorized collection points for pollutants.

This helps to avoid damaging effects to the environment and human health caused by improper disposal.

This makes a valuable contribution to recycling and other forms of utilization of old electrical and electronic equipment.

You can obtain information about environmentally friendly disposal from your local government or the municipal administrations.

Service

For all service-related questions, please contact your responsible specialist dealer.

Safety notes

This chapter provides a summary of general information on safety and proper handling of the device. More specific safety advice is given in other chapters of the operating manual.

Intended use

The unit is intended to be used for the tanning of one single person at a time. This person must not fall in one of the categories mentioned below, otherwise using the tanning equipment is prohibited for him or her.

The following individuals must not use the tanning system:

- Persons under 18 years of age
- Persons with heart pacemakers.
- Persons, who are suffering or have suffered from skin cancer or have a predisposition toward this, or those whose first-degree relatives are suffering or have suffered from malignant melanoma (black skin cancer).
- Persons taking photosensitive medications.
- Persons, who are being treated by a physician for conditions associated with photosensitivity.
- Persons suffering from acute sunburn.
- Persons, who are prone to freckles.
- Persons with atypical discoloured skin areas or/ and with more than five atypical moles with a diameter of 5 millimetres or more and persons with more than 16 moles with a diameter greater than or equal to 2 millimetres. If in doubt, consult a physician!
- Persons, who had several severe sunburns as children.
- Persons with naturally red skin colour.
- Persons, who do not tan at all or cannot tan without getting sunburn.
- Persons, who have a predisposition toward sunburn.

Furthermore, this tanning unit has been designed for use by individuals who are in full command of their physical, sensorial and mental faculties. Moreover, sufficient knowledge and experience are required. During the operation no other persons shell be in the radiation range of the device.

Children, should be supervised to make sure that they do not use the unit as a toy.

Duties of the operator

KBL AG cannot be held liable for any damage resulting from improper use of the equipment or non-observance of these operating instructions.

Only use original replacement parts!

Only replace tubes and high pressure lamps with those listed on the device. Otherwise, this voids the operating authorization and warranty!

Timer operation

The tanning unit must be controlled via an external timer. Should the external timer fail, an internal timer will switch off the system automatically after 44 minutes.

General safety advice

- Follow all instructions given in this manual. In addition, observe all relevant statutory provisions and regulations, also those applicable in the country of operation.
- The unit must only be installed and assembled by specifically trained staff.
- Arbitrary modifications or conversions of the equipment are not permissible.
- Observe all danger signs and safety notices attached to the equipment.
- Safety notices must not be removed, and safety equipment must not be disabled or removed.
- The unit must only be operated when in perfect working condition.
- Never operate the unit with the outer covers or acrylic panes removed.
- The tanning system must be controlled via a timer that complies with the generally applicable standards.
- Absolutely observe the maintenance frequencies indicated in the maintenance plan.

Tanning times

Adhering to tanning times and schedules is essential.

Updating the system software

ATTENTION

Risk of damage by switching off the power supply voltage.

Disconnecting power supply during the update process, will lead to damage of electronic components.

- Make sure that the unit is not disconnected from the power supply voltage during the update.

To accomplish the update download the “USB-Connect” software offered by KBL. For detailed information press the help-button in the main menu.

Description of the unit

Congratulations!
With your tower *mon amie*, you have purchased an original Collarium®.
A combination of special collagen tubes to build up the collagen deposits in your skin, in conjunction with selectable UV-tubes to create a subtle tan, makes your tower *mon amie* a one of a kind skin care system.

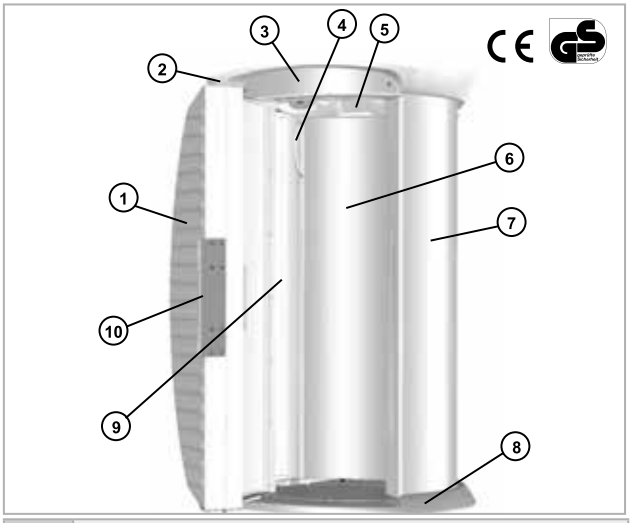
Standards

This tanning system complies with the following standards in their respectively applicable version:

- EN 60335-2-27
- EMC 2004/108/EC
- Low Voltage Directive 2006/95/EC

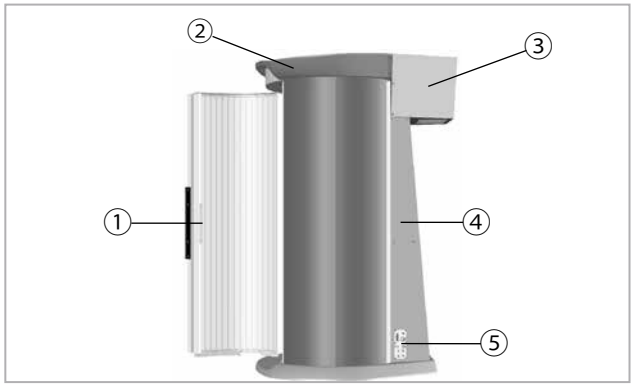
Views

FRONT SIDE OF THE TOWER, DOOR OPENED



1	Door
2	Top crown
3	Facing of unit lighting at top crown
4	Grab handle, left-hand side
5	Display
6	Rear wall
7	Lateral part, right-hand side
8	Floor plate
9	Lateral part, left-hand side
10	Door handle

SIDE VIEW, DOOR OPENED



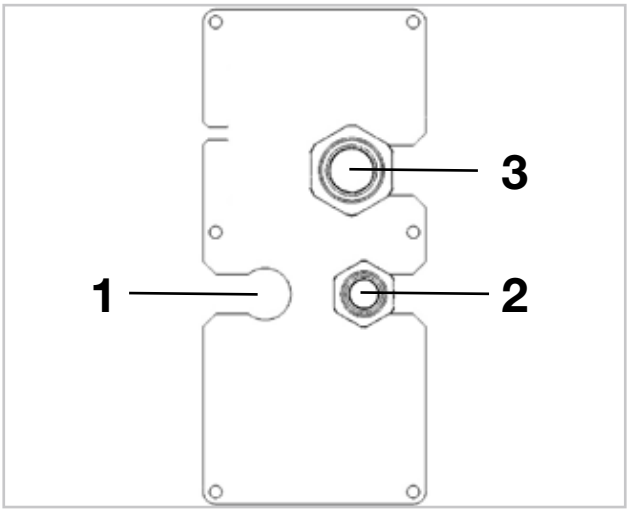
1	Door handle, inside
2	Top crown
3	Fan casing
4	Rear wall
5	Supply connections

FRONT AND TOP PART OF THE TOWER, DOOR CLOSED

1	Overhead ventilation opening
2	Exhaust opening

Connections

Overview - supply connections



1	Audio connection / channel selection
2	Connection of external timer (coin-box system)
3	Power supply

Connecting the mains voltage

DANGER!

Live components

Risk of fatal injury due to electric shock when touching live parts.

- Switch off mains voltage.

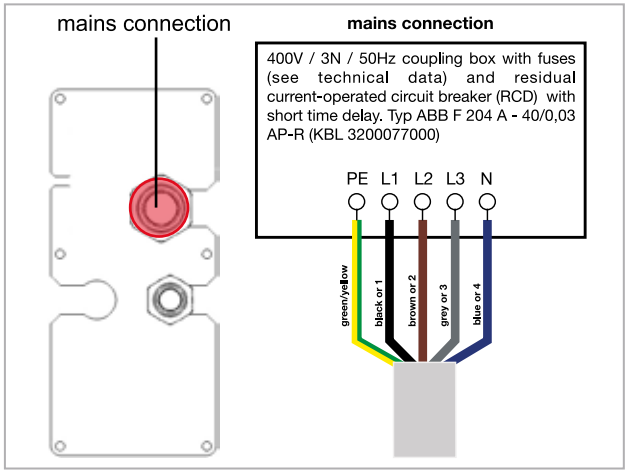
- Protect against re-connection.

Both the power supply and the related connection work must comply with national standards, e.g. those set up by VDE in Germany. The connection work must only be performed by qualified expert staff.

The connection to the 400 V mains must be protected by fuses. Their specifications are listed in the chapter “Technical data”.

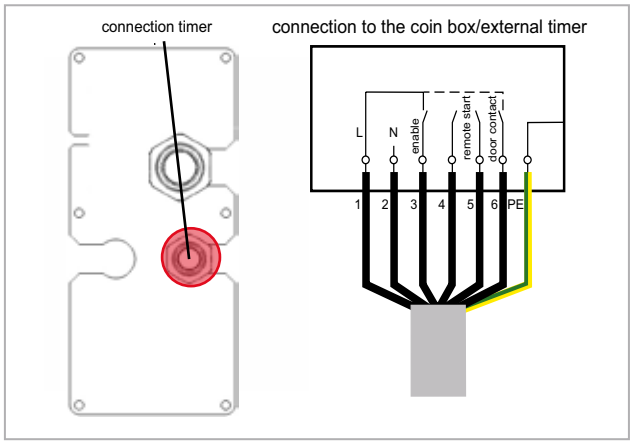
A residual current-operated circuit breaker (RCD) with short time delay is absolutely required. KBL AG recommends the following type: KBL 3200 0770 00 (type (Typ ABB F 204 A - 40//0,03 AP-R)

Should the operation of the tanning unit cause any interference in the power supply network, e.g. with ripple-control systems (TRA), consult your power supply company to have corresponding blocking elements (audio frequency suppressors) installed.


mains connection
mains connection
400V / 3N / 50Hz coupling box with fuses (see technical data) and residual current-operated circuit breaker (RCD) with short time delay. Typ ABB F 204 A - 40/0,03 AP-R (KBL 3200077000)
PE L1 L2 L3 N
green/yellow
black or 1
brown or 2
grey or 3
blue or 4

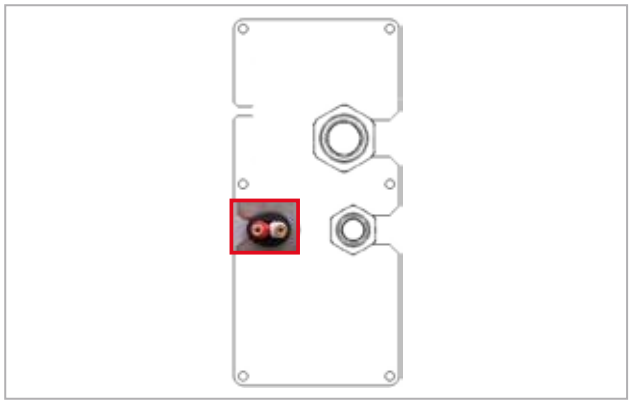
Connecting an external timer

Connect the external timer (e.g. coin box, studio control) according to the instructions supplied with the timer. The following diagram shows the wiring of the timer connection. A door contact is necessary for the option “cabin fragrance”.



Connecting an external audio source

The cinch marked in the illustration is connected to the external audio source where the line-out of the sound player or the headphone/loudspeaker jack are available for connection.



Operation using different audio sources

The tanning unit can be operated using the following audio sources:

- An internal audio source
- Various external audio sources
- All available audio sources

The audio source can be changed via the control panel.

INTERNAL MP3 PLAYER

When using the internal MP3 player, you can either play the music tracks that are originally supplied on the SD card, or you can record your own tracks to the SD card.

EXTERNAL AUDIO SOURCES - LINE IN

As an external audio source, you can connect devices ranging from the standard-line level to low loudspeaker levels.

These sources comprise:

- Studio music
- External players such as MP3 players, mobile phones (cell phones), I-pods, etc.

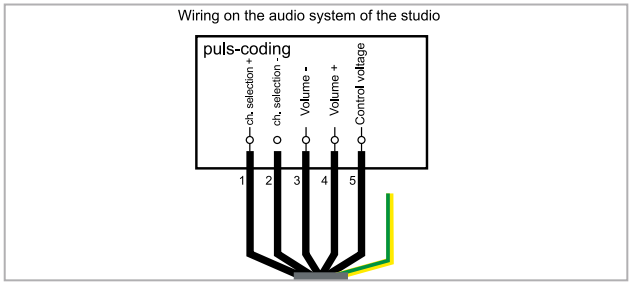
EXTERNAL 100 V AUDIO SIGNAL ON STUDIO CHANNEL (OPTIONAL FEATURE)

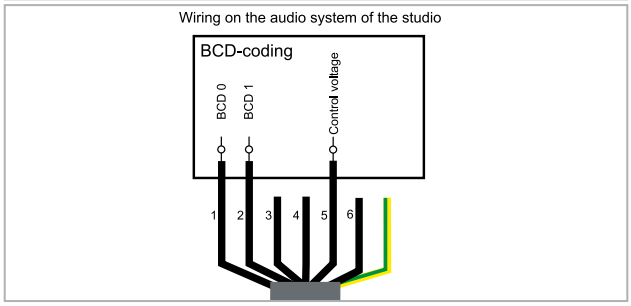
If you decide for a connection to a 100 V audio system, you will need a transformer (KBL no.: 9100 0170 00) for the transmission of the audio signal.

This connection must be made by trained service staff.

Connecting the channel selection

The following diagrams show the wiring of the channel selection on the audio equipment's side, for pulse coding as well as for BCD coding.





CHANNEL	BCD 0	BCD 1
1	0	0
2	1	0
3	0	1
4	1	1

Level adjustment studio music

The voice / audio system components are installed in the back part of the tower. The potentiometer which serves to adjust the external audio signal level is accessible through a maintenance hatch on the left hand side of the tower. To avoid overdrive, select the level adjustment accordingly. The level setting depends on the strength of the external signal and should be carried out by a service engineer.

Bluetooth connection

To connect an external player (smartphone etc.) wirelessly to the solarium an optional Bluetooth interface is available.

CONNECT EXTERNAL PLAYER

A Bluetooth connection can be established in standby and during tanning mode.

ⓘ	Make sure that you are within the reception area (about 2 meters). Make sure that your device is configured to search for other bluetooth devices. Should this not be the case, enable bluetooth manually. To do so, please read the instructions for your appliance.

- Depending on your settings the search will be performed automatically or manually. All available bluetooth devices within reach will be listed after a short time.
- Among the available devices choose “megaSun”. In the service menu, a trailing number (01, 02, 03, ...) can be added to device name.
- If necessary confirm the shown code and connect again. Not every smart phone asks for a code.

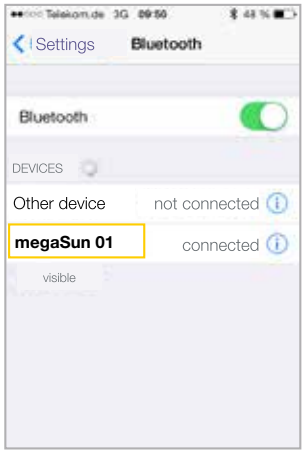
Example - Samsung Galaxy

Example - Apple iPhone

- A two-time beep indicates that your device is connected to the solarium.

Example - Samsung Galaxy

Example - Apple iPhone



- Set your device to a **medium volume level** and start the music.
- Adjust the volume level on your device.
- During the tanning session, the volume control has to be done at the tanning device.

DISCONNECT EXTERNAL PLAYER

An existing connection is disconnected automatically after tanning.

The connection is automatically disconnected if the tanning session is not started within 6 minutes.

COMPATIBILITY OF BLUETOOTH DEVICES

KBL AG attaches great importance to hardware compatibility. Due to the large number of manufacturers, KBL can not guarantee a 100 % compatibility. In rare cases, it may happen that a bluetooth connection can not be established.

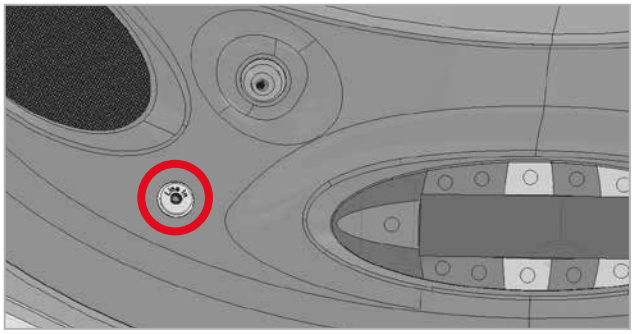
CORRECTIVE ACTION

Each unit offers a list of paired devices. Delete the older entries in this list which have a profile that overlaps with the ones for which you want to pair your device.

Start the bluetooth device detection again.

External Players

A line connection has been integrated into in the head area near the interior display so that the user can connect his or her own player such as an MP3 player, an iPod, etc. Use a standard 3.5mm jack cable (included if the music option has been ordered). Connect the jack plug to the earphone jack of your player. Then select ”MP3 ext.” as the audio source from the control panel of the tanning device before you start playing your own tracks from the player. The tracks can only be selected via the user’s own player. The volume can be controlled via the control panel of the tanning device and also via the corresponding operating elements provided by the user’s player.



Start-up

Before switching on for the first time:

- Fix the supplied warning sign or one with the following wording permanently to the wall close to the tanning unit:

Warning!

- UV-radiation can cause eye and skin damage as well as skin aging and possibly skin cancer. Ask the studio staff for further information.
- Wear protective goggles.
- Certain medicines or cosmetics can increase the sensitivity of the skin to UV radiation. If in doubt, consult a physician.

- Determine the presettings for the device in the service menu.
- Check correct installation of fluorescent tubes. The tube labeling must be visible, otherwise no tanning effect may be obtained.
- Store these Operating Instructions in a place that allows for easy access at any time.

Operating modes

The three different operating modes are explained below:

STANDBY MODE

The unit is in an idle state, i.e. it is connected to the mains but is currently not being used. The tubes and the tanning lamps are switched off. From the standby mode, you can change over to the tanning mode or to the service mode.

TANNING MODE

The tubes and the tanning lamps are switched on and a tanning session is in progress. While the unit is in tanning mode, the settings for the ongoing tanning session can be changed via the control panel.

SERVICE MODE

In the service mode, the device is configured for the tanning mode. Various values can be displayed and test functions can be carried out.

FAN RUN-ON

After the tanning session, the fan runs on for 3 minutes in order to cool down the device. The fan power is automatically decreased as the tubes cool down.

Collagen-Tanning instructions

Your tower *mon amie* is primarily a skin care system for the targeted build-up of collagen. It is optionally possible, however to administer a UV-dose. In this case, follow the instructions below.

Notes regarding UV-tanning

As a rule, an averagely tanning skin has achieved a uniform tan after three to five tanning sessions. These sessions should take place every second day. To preserve the suntan achieved, one or two tanning sessions per week are normally sufficient.

NO SUNSCREEN WITH PROTECTION FACTOR

Sunscreens with sun protection factors are unsuitable for use in a tanning salon. For tanning, the skin should have been thoroughly cleaned and be dry. For optimum skin care, we recommend using body-care products after tanning.

GENERAL

- Any person that complies with the requirements laid down in the chapter “Intended use” may use the device.
- Never exceed your personal minimum erythema dose (MED). Follow the prescribed exposure times.
- If reddening of the skin (erythema) occurs hours after tanning, temporarily stop tanning. After a week the tanning can be resumed at the beginning of the tanning table.
- If unexpected effects (such as itching) occur within 48 hours after the first tanning session, you should consult a physician before tanning again.
- Once final tanning has been achieved, additional tanning is only possible by greatly exceeding the permissible tanning times. It is essential to avoid this.
- UV-radiation from the sun or from UV-devices can cause irreversible skin or eye damage. These biological effects depend on the type and amount of radiation as well as on the individual sensitivity of the skin.
- In cases of pronounced individual sensitivity or allergic reactions to UV-radiation, a physician should be consulted before beginning tanning.
- After excessive exposure to radiation, the skin may exhibit sunburn. Excessively repeated exposure to UV radiation of sunlight or UV appliances can result in premature ageing of the skin and in a higher risk of skin cancer.
- The unprotected eye can suffer from surface inflammation, and in certain cases, e.g. after a cataract operation, excessive radiation can damage the retina. After many repeated sessions, a cataract may form.
- Seek medical advice if persistent swellings or sores develop on the skin or if pigmented moles change in appearance.

FOR EACH TANNING SESSION

- Always wear the supplied protective goggles. Contact lenses or sunglasses are no substitute for the protective goggles!
- Remove cosmetics before tanning and do not use any sunscreen, or products that accelerate tanning.
- Allow for at least 48 hours to pass between sessions.
- After a tanning session in a studio, do not take another sunbath out of doors on the same day.
- Protect sensitive areas, such as scars, tattoos, and genitalia, from radiation.

Tanning times

Please refer to the following tables for learning the individually applicable tanning times that depend on the skin type. For the precise definition of the skin types, please refer to the supplied skin-type table. If the tanning session sequence is interrupted for 4 weeks or more, you will have to start with the first session again.
The interval between two tanning sessions must be at least 48 hours.
The times mentioned in the tanning schedules only apply on the condition that tubes are replaced according to the maintenance intervals stipulated in the section dealing with maintenance.

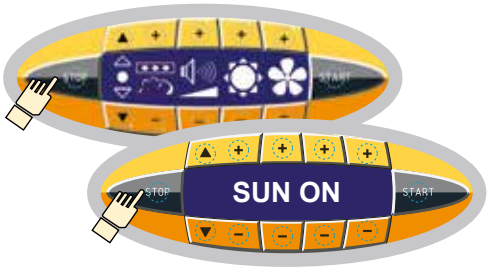
EU TANNING SCHEDULE - according to UV-Typ III and 0,3W/m² in compliance with EN 60335-2-27

	Skin type					
	I	II	III	IV	V	VI
1. Session	6 min	6 min	6 min	6 min	6 min	6 min
2. Session	6 min	7 min	7 min	8 min	10 min	11 min
3. Session	7 min	7 min	9 min	10 min	14 min	17 min
4. Session	7 min	8 min	10 min	12 min	19 min	22 min
5. Session	8 min	9 min	12 min	14 min	23 min	28 min
6. Session	9 min	10 min	13 min	16 min	27 min	33 min
7. Session	9 min	11 min	15 min	19 min	32 min	39 min
8. Session	10 min	12 min	16 min	21 min	36 min	44 min
9. Session	10 min	13 min	18 min	23 min	40 min	50 min
10. Session	11 min	14 min	19 min	25 min	44 min	> 55 min
Max. number of tanning sessions per year	132	104	77	58	33	26

Collagen-Tanning mode

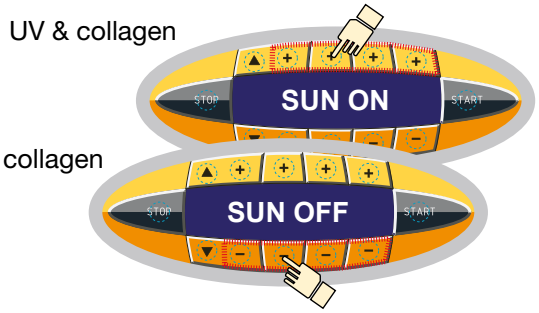
Switching the display

By pressing the stop button in standby mode you may switch between the “tanning mode preselection” and the standard menu display. After 20 seconds the display switches back to the “tanning mode preselection”, authomatically.



Preselecting the type of tanning

Your Tower *mon amie* makes it possible for you to choose between pure collagen operation or a collagen/UV-mix.



DANGER

Excessive dose of UV radiation

Excessively prolonged tanning sessions may cause severe damage to skin and eyes.

- Never operate the solarium with a defective timer.
- Observe the tanning times given in the tanning schedule.

The following explanations and functions refer to a tanning system that is fully equipped with all features.

Starting the tanning session

During the tanning session, the door must remain closed in order to ensure that the ventilation works properly.

- Close the door and place yourself in the middle of the tower booth in such a way that the distance between your body and the surrounding lamps is about equal at any point.
- Put on protective goggles.
- The tanning session will commence automatically after the warm-up time controlled by the timer has elapsed. During the warm-up time, the tanning session can be started manually at any time by pressing the START button.

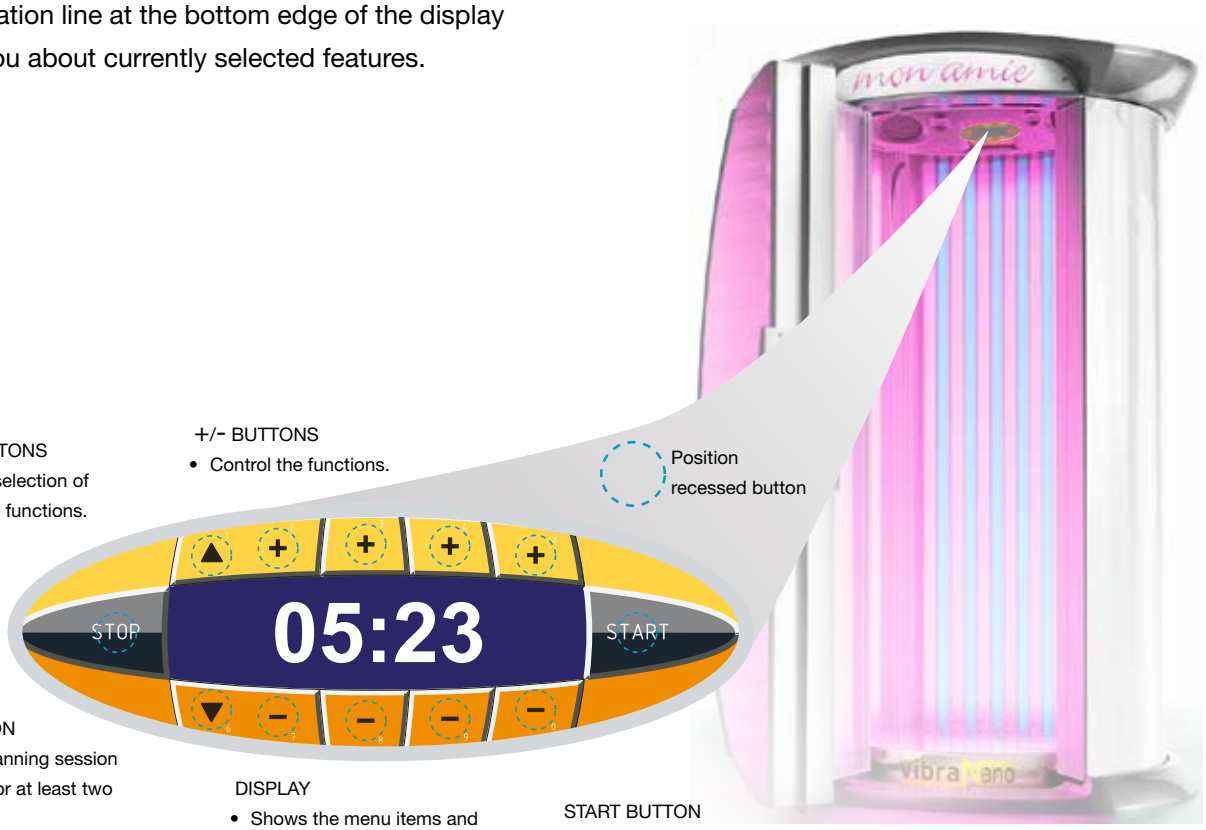
Operation during the tanning session

You can control the functions of the device via the control panel during the tanning session. It is particularly easy for you to access the basic functions. Buttons with recesses that can easily be sensed allow for easy operation of the system even with your eyes closed.

NOTES:

20 seconds after your last input, the display changes over to the indication of the tanning time.

An information line at the bottom edge of the display informs you about currently selected features.



ARROW BUTTONS
- Allows the selection of subordinate functions.

+/- BUTTONS
- Control the functions.

Position recessed button

STOP BUTTON
- Stops the tanning session if pressed for at least two seconds.

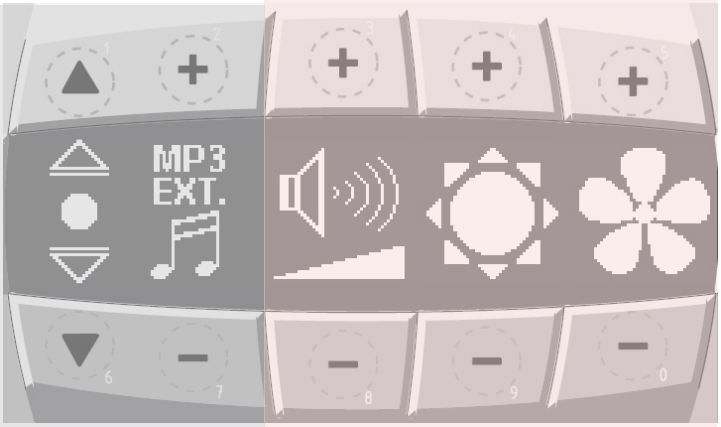
DISPLAY
- Shows the menu items and functions.
- Indicates the tanning time.
- Information line.

START BUTTON
- Starts the tanning session during the warm-up time
- as well as after an interruption caused by pressing the STOP button, provided that the booked tanning time has not elapsed yet.

During the session, you need quick access to basic functions such as volume control, body fan and SUN ON/OFF function.
You should also be in a position to change the subordinate functions.
The control panel caters for both requirements. You have

- direct access to frequently needed functions via the “Basic functions” section, and
- access to the subordinate functions you made via the variable section of the control panel (display according to the rotation principle).

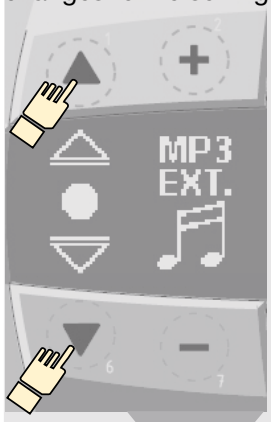
Basic functions



The basic functions portrayed here refer to a fully equipped tanning bed. If you have chosen a simpler equipment package, functions from the variable operating elements automatically take the place of the missing basic function.

Variable section of the control panel

During the tanning session, you continue to have access to the subordinate functions. If you wish to make any changes, you can do so in the variable section of the control panel. By pressing one of the arrow buttons ▲ ▼, above or below the changeover symbol , all available functions will be displayed one after the other according to the rotation principle. You can switch these individual functions on or off and, if possible, make changes to the settings.



Prerequisite:
The functions must be available and activated in the service menu.

Selectable function symbols (for a fully equipped unit)

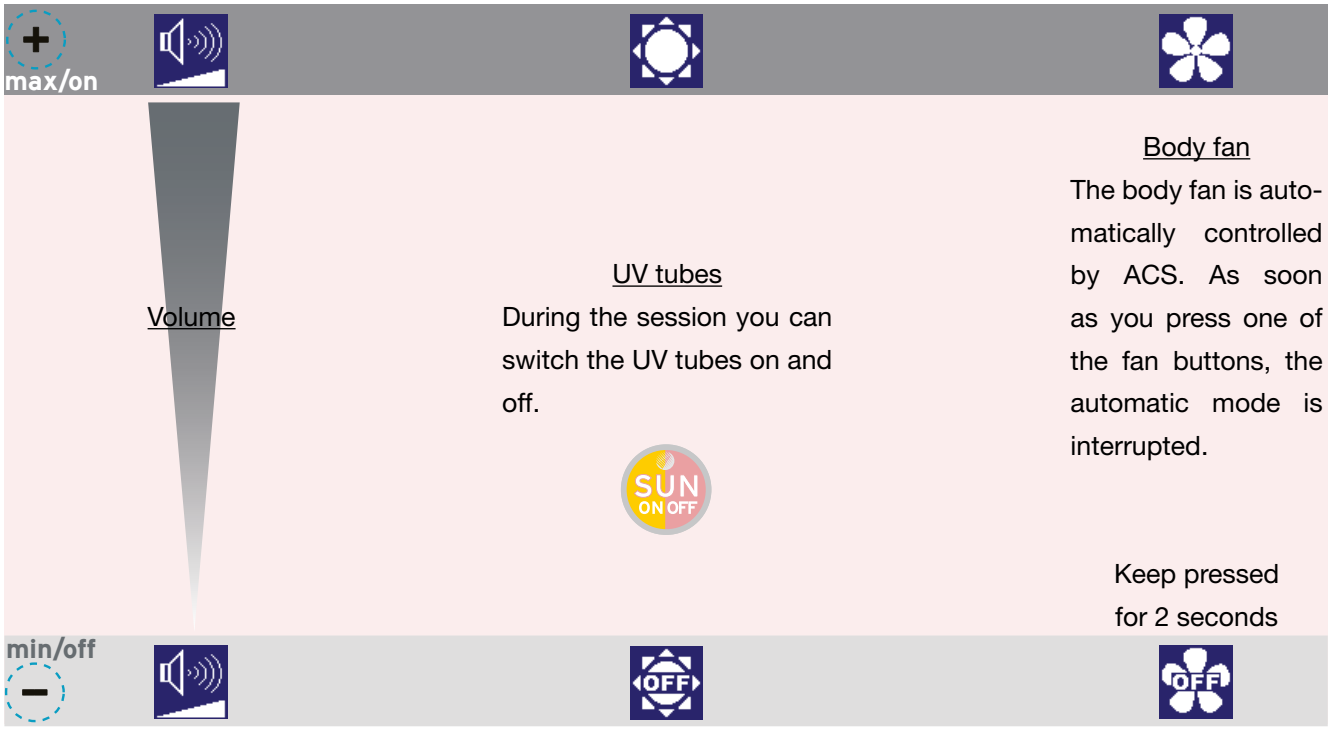
megaVoice

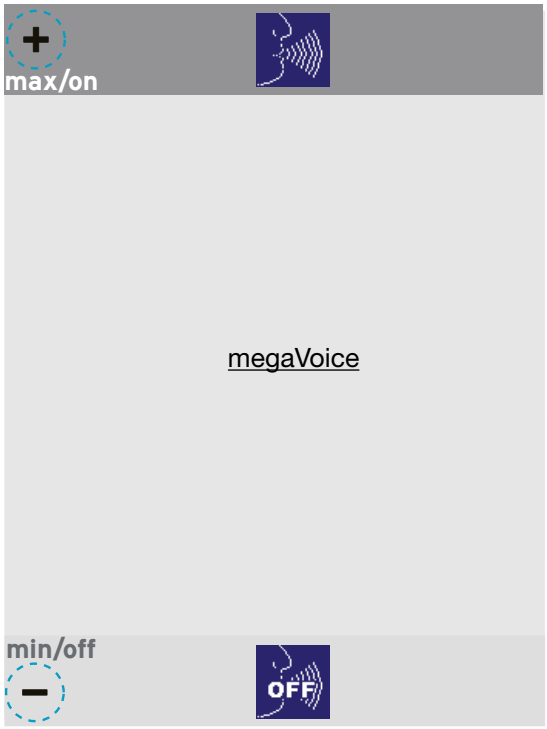
MP3-int.

Studio

MP3-ext.

Functions overview

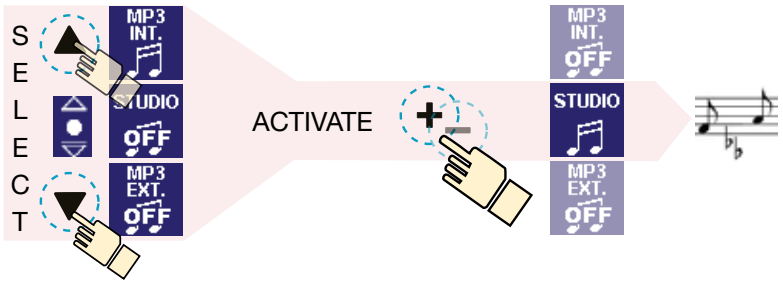

max/on
Volume
UV tubes
During the session you can switch the UV tubes on and off.
SUN ON OFF
Body fan
The body fan is automatically controlled by ACS. As soon as you press one of the fan buttons, the automatic mode is interrupted.
Keep pressed for 2 seconds
min/off
OFF
OFF



AUDIO FUNCTIONS

There is a maximum of three audio sources available at the user's disposal. If you change over to another source, you must activate it first. The activation is effected by pressing the + or the − button.
All inactive audio functions are marked with "OFF" on the display so that you can easily recognise the active audio source.

MODEL: ACTIVATING AUDIO FUNCTIONS



Variable section of the control panel (audio functions)

+ Channel +

Studio

This function is used to play the studio music.
If the Studio function has been activated, you can press the plus and minus buttons to browse through the channels, provided that more than one channel is available.

MP3 external (AUX)

A line connection has been integrated into in the head area near the interior display so that the user can connect his or her own player, such as MP3 players, iPods, etc. Use a standard 3.5 mm jack cable to connect the jack plug to the earphone jack of your player. Use the corresponding operating elements of the external player in order to select the desired tracks. With the "MP3 external" control element you have also access to a bluetooth connected device.

− Channel −

+ Tracks +

MP3 internal

This function is used to play the tracks of the internal MP3 player of the tanning unit, the respective first title being selected by a random generator.
If the MP3 internal function has been activated, press the plus and minus buttons to browse through the individual tracks.

− Tracks −

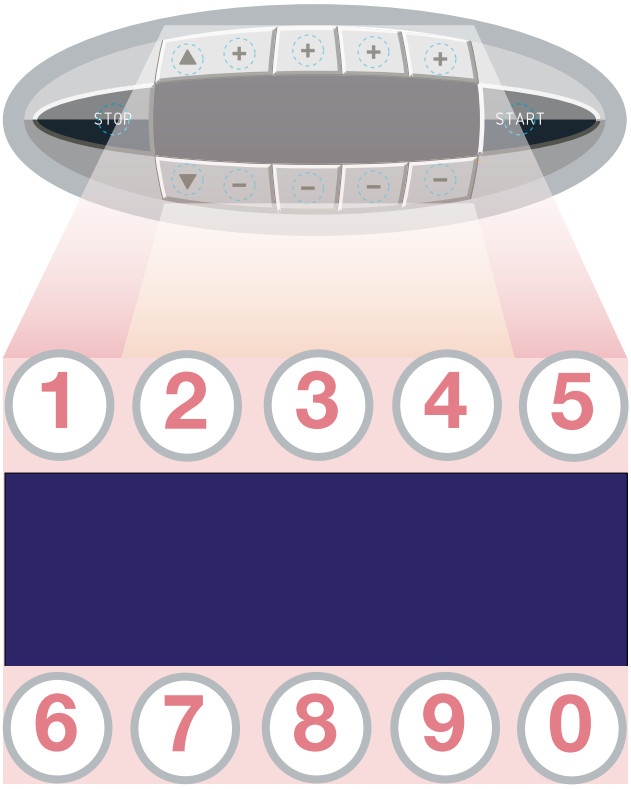
Standby mode / service mode

When the unit is in service mode, you can make the presettings for operation in tanning mode, and you can have values concerning the operation of the sunbed displayed.

While the tanning unit is in standby mode, you can switch the decorative lighting of the sunbed on and off.

Layout of the display numbers

The buttons of the interior display are allocated double functions. In addition to the standard operating elements, they stand for numbers that, in standby mode, provide access to standby and service functions. Simply enter the corresponding sequence of numbers on the display.



Switching the decorative lighting on and off

5 0 5

NOTE

The connection times of the decorative lighting can be set in the service menu individually for each day of the week.

There are two independent connection periods (A and B) available for each day of the week.

Invoking the service menu

1 6 1 0 0 0 0

PIN

NOTE

Do not let too much time pass between the individual keystrokes when entering a sequence of numbers!

Service menu - Basics

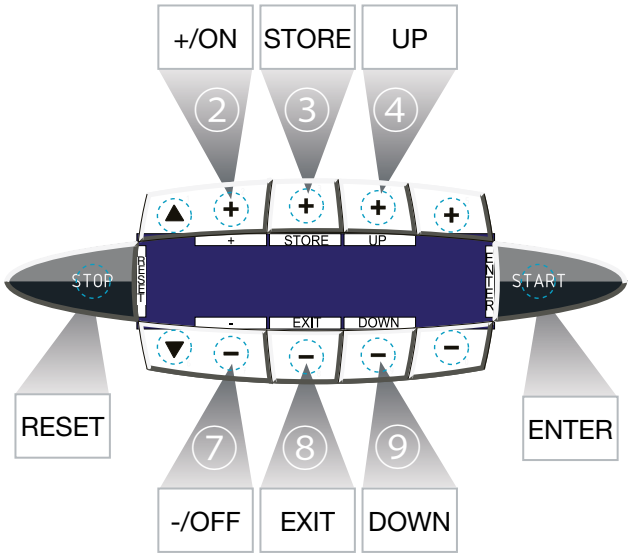
In standby mode, the service level is accessed by entering “161”, followed by PIN “0000”. There is one additional condition that must be fulfilled:

- No incoming signal from the coin-box system.

SERVICE MENU - STANDARD OPERATING ELEMENTS

After having entered the service PIN, the service menu is at your disposal. Navigation is made via the following buttons (see also chapter: Layout of the display numbers):

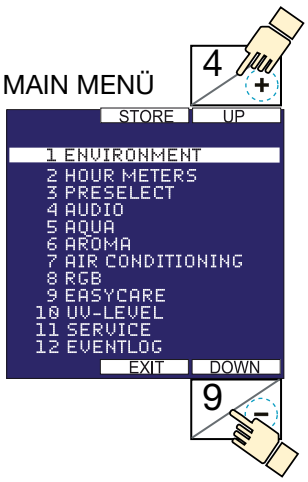
- Use buttons 4 (UP) and 9 (DOWN) to browse through the individual menu items and functions.
- Press the START/ENTER button to go to the corresponding submenu.
- Button 2 and 7 are used to switch functions on and off and to modify values.
- Press 3 (STORE) to save all modifications made in all menu items.
- Press 8 (EXIT) to go back to the previous menu level or to exit the service menu.



SERVICE MENU - BASIC OPERATION

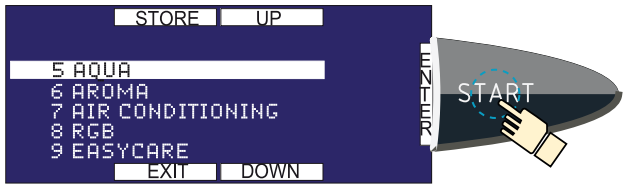
The service menu is divided into the main menu and subordinate groups of functions.

If you choose a menu item, e.g. “AUDIO”, you will get access to all functions related to this item.

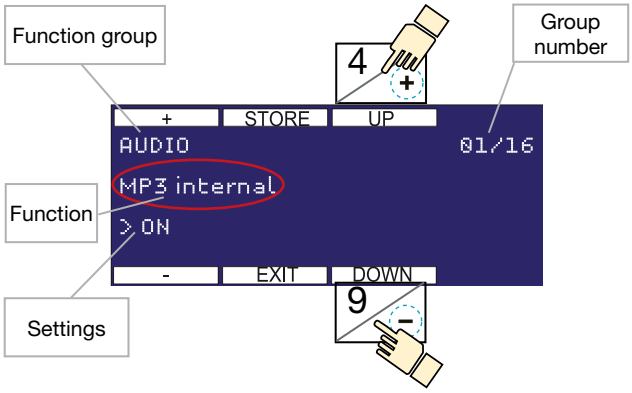


- Select the desired function group from the main menu by pressing the 4 (UP) or the 9 (DOWN) button. The currently selected group is highlighted.

- Press the START/ENTER button to access the desired group menu.

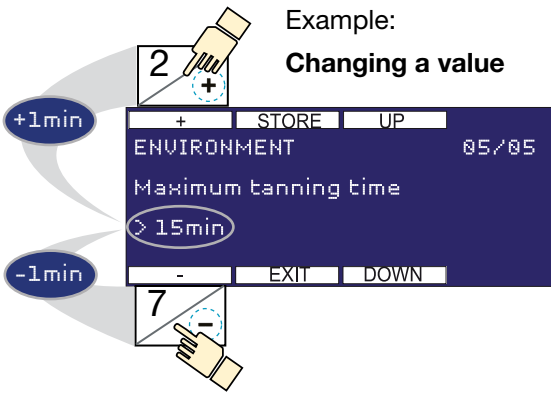


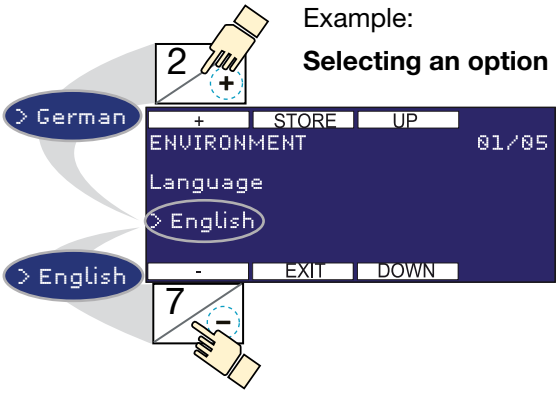
- The currently active function (circle) is displayed in the centre line on the left-hand side. You can invoke further functions of this group by pressing 4 (UP) or 9 (DOWN).

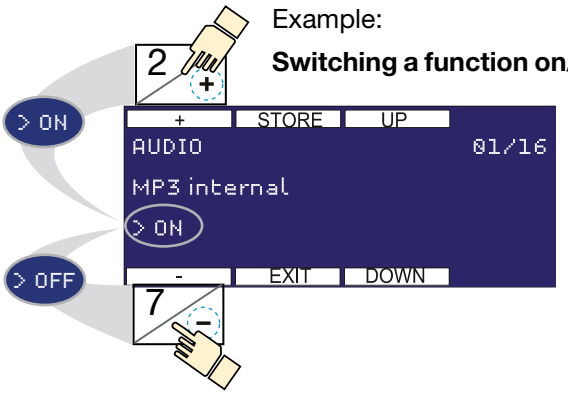


CHANGE SETTINGS

- Depending on the respective function, you can **change values, select options and switch functions on or off.** To do so, use the buttons 2 (+) and 7 (-).

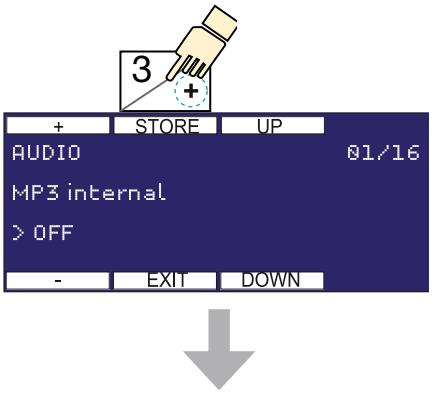




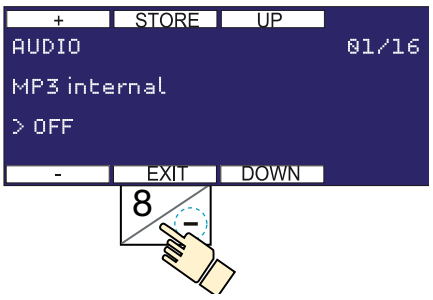


STORE & EXIT

- Save your settings by pressing the button 3 (STORE). If you fail to do so, the system will not take over the changes you made. -> See also chapter “Service Menu - Timeout”.
- By pressing the STORE button, you save all changes you have made in all menu items.



- By pressing 8 (EXIT), you go back to the previous menu level, or you exit the service menu.



SERVICE MENU - TIMEOUT

After performing your last operating action, you have 2 minutes left to save the changes you have made. Then, a prompt appears and all changes are automatically discarded after an additional 20 seconds.

SERVICE MENU - AUDIBLE SIGNALS

For user convenience, operation and storage processes are acoustically acknowledged in different ways:

Operation process	->	short sound
Storage process	->	long sound

KBL-7 | **Service menu - Overview** | **VERSION: 01.27**

1. ENVIRONMENT
- ① Language
- ② Contrast
- ③ TIME AND DATE
- ④ TIMER DECORATIVE LIGHTING
- ⑤ Maximum tanning time

2. HOUR METERS
- ⑥ Operating hours overall
- ⑦ Operating hours UV tubes
- ⑧ Operating hours collagen tubes
- ⑨ Number of sunbath

3. PRESELECT
- ⑩ UV-Typ
- ⑪ Audio
- ⑫ Voice (megaVoice)
- ⑬ Aircon (aircondition)
- ⑭ Aroma
- ⑮ Aqua (aquaCool)

4. AUDIO
- ⑯ MP3 internal
- ⑰ megaVoice
- ⑱ megaVoice language
- ⑲ Studio (Line-in)
- ⑳ usb MP3
- ㉑ MP3 external (Line in)
- ㉒ Studio channel selection
- ㉓ Number of studio channels
- ㉔ Musik nonstop
- ㉕ Nonstop music source
- ㉖ Default volume tanning
- ㉗ Default volume standby
- ㉘ Maximum adjustable volume
- ㉙ megaVoice volume adaption
- ㉚ Dynamic volume adaption
- ㉛ Treble MP3 - USB
- ㉜ High bass MP3 - USB
- ㉝ Low bass MP3 - USB
- ㉞ Volume adaption Studio Line-In
- ㉟ Treble Studio Line-In
- ㊱ High bass Studio Line-In
- ㊲ Low bass Studio Line-In

5. AQUA
- ㊳ aquaCool
- ㊴ aquaCool spray time
- ㊵ Cycle time
- ㊶ aquaCool start test cycle
- ㊷ aquaCool endurance test
- ㊸ aquaCool start initialization

6. AROMA
- ㊹ Aroma
- ㊺ Aroma status reset
- ㊻ Cycle time
- ㊼ Aroma cabin automatic
- ㊽ Aroma cycles per hour
- ㊾ TIMER AROMA
- ㊿ Aroma start test cycle

7. AIR CONDITIONING
- (51) Air condition
- (52) Start level body fan

8. RGB
- (53) RGB mode

9. (54) EASYCARE

10. (55) UV-LEVEL

11. SERVICE
- (56) Load factory defaults
- (57) Personal PIN

BLUETOOTH
- (58) Name
- (59) Powerlevel

- (60) FIRMWARE-TYP
- (61) FIRMWARE-VERSIONEN
- (62) SOFTWARE UPLOAD
- (63) RGB-Setup

SERVICE MODE
- (64) Service mode without tanning
- (65) Service mode with tanning

- (66) SOLARIUM IDENTIFICATION
- (67) SOLARIUM X-CODE
- (68) Reboot

12. (69) EVENT LOG

Personal PIN

In delivery condition some menu items are protected by a factory PIN. Optionally, the factory PIN can be replaced by a “Personal PIN”.

- You will receive the “Personal PIN” with the product documentation.
- The personal PIN may be activated or deactivated by selecting the “SERVICE/Personal PIN” setting in the service menu.

	Every software update deactivates the “Personal PIN”.

”Personal PIN” secured menu items may be identified by the personal PIN logo as given in the service menu.

Service menu - options

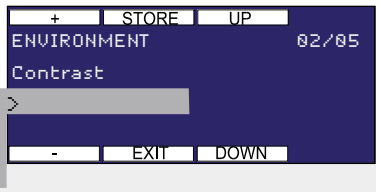
	• In order to avoid operating errors, read through the basics at the beginning of the “Service Menu” section.

- Always remember to save your settings by pressing STORE.
- All menu items that comprise further submenus are displayed in CAPITAL LETTERS.

①

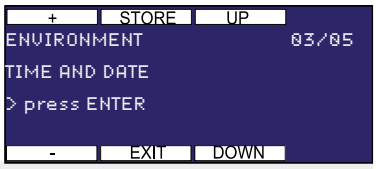
Sets the language of the menu.

Factory setting: German

② 

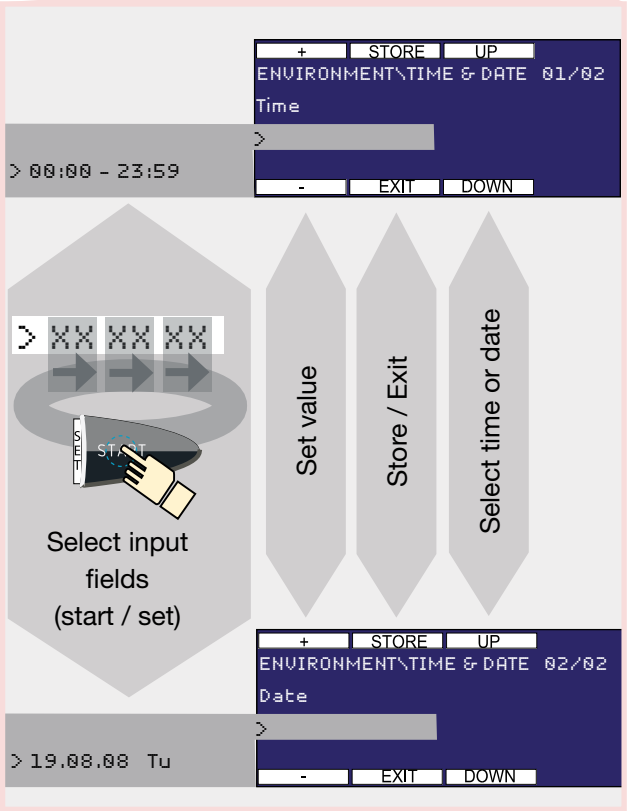
Sets the contrast of the display.

Factory setting: 00020

③ 

Entry of date and time. Invoke the submenu by pressing START (ENTER).

SUBMENU
TIME & DATE



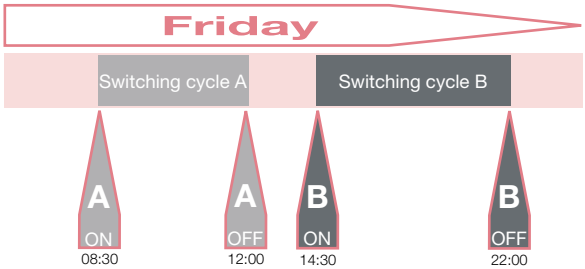
The menu item „Timer decorative lighting“ offers you two switching cycles (A and B) for each day of the week.

NOTE - SWITCHING CYCLES

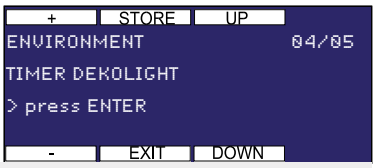
Using the setting „monday-sunday“, the switching cycle will be the same for each day of the week.

Week	Switching cycle A	Switching cycle B
Monday - Sunday	A-ON	B-ON
	A-OFF	B-OFF

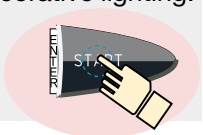
Switching cycles	A	B
Monday	A-ON	B-ON
	A-OFF	B-OFF
Tuesday	A-ON	B-ON
	A-OFF	B-OFF
Wednesday	A-ON	B-ON
	A-OFF	B-OFF
Thursday	A-ON	B-ON
	A-OFF	B-OFF
Friday	A-ON	B-ON
	A-OFF	B-OFF
Saturday	A-ON	B-ON
	A-OFF	B-OFF
Sunday	A-ON	B-ON
	A-OFF	B-OFF



④

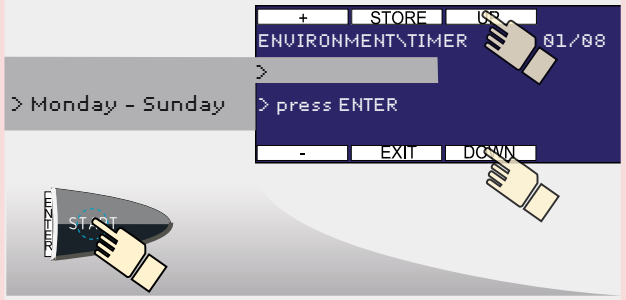


Entering switching times for the decorative lighting. The submenu is invoked by pressing START (ENTER).

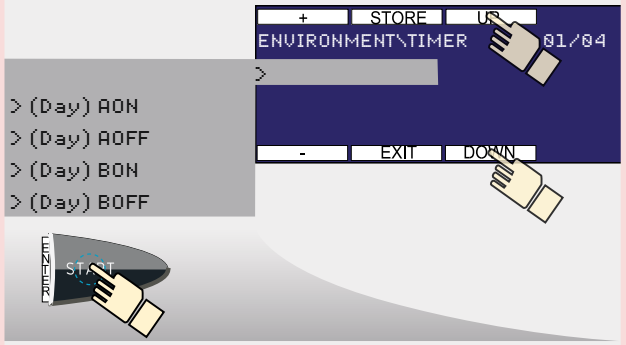


SUBMENU
TIMER DECORATIV LIGTHING

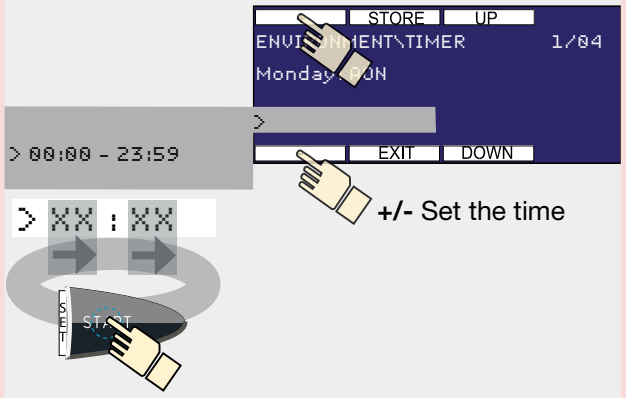
SELECT DAY OF THE WEEK



ENTER SWITCHING TIME



SET SWITCHING CYCLES

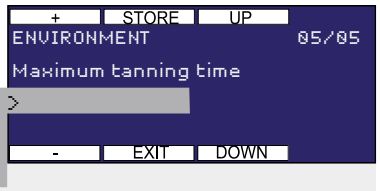


+/- Set the time

Select input fields (start / set)

- Save settings by pressing STORE!

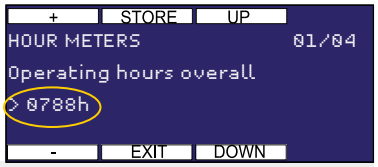
5 PERSONAL PIN



Sets the maximum tanning time for all timers. In the easyCare operating mode, the setting has been fixed to 30 minutes.

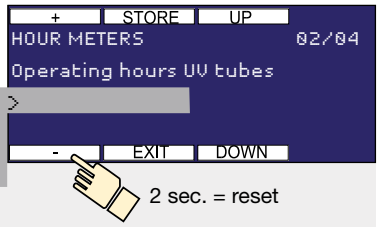
Factory setting: 44 minutes

6



Displays the total operating hours.

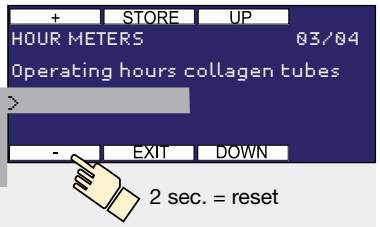
7



Displays the total operating hours of the UV tubes and includes a reset function and set function to set the value in steps of five via the +/- buttons.

- Save settings by pressing STORE!

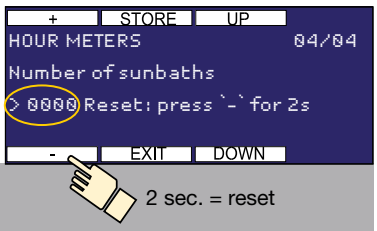
8



Displays the total operating hours of the collagen tubes and includes a reset function and set function to set the value in steps of five via the +/- buttons.

- Save settings by pressing STORE!

9

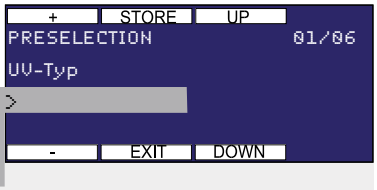


Indicates the number of tanning sessions (sunbaths) and includes a reset function.

Under the menu item “PRESELECTION” you can make the initial settings for the device. The functions must be available and activated in this service menu.

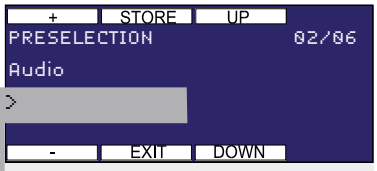
-> ⑯/⑰/⑲/㊳/㊹/㊿

10



Not available in this system.

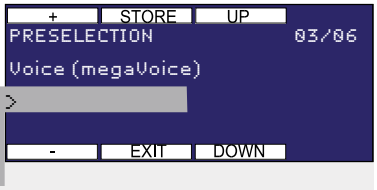
11



Determines the start setting of the audio source.

Factory setting: MP3-internal

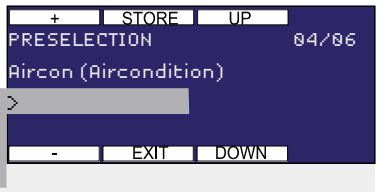
12



Specifies the start setting of the voice-guidance system.

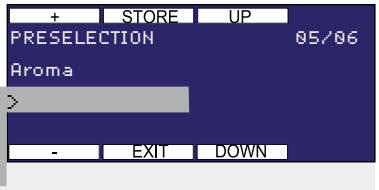
Factory setting: on

13



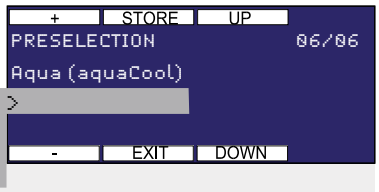
Not available in this system.

14



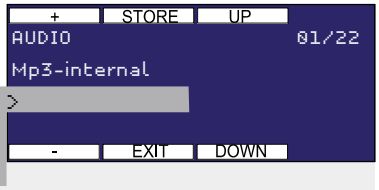
Not available in this system.

15



Not available in this system.

16

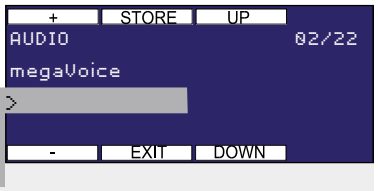


> on
> off

Activates and deactivates the internal MP3 player.

Factory setting: off

17

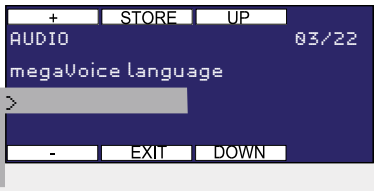


> on
> off

Activates and deactivates the voice-guidance system (megaVoice).

Factory setting: on

18

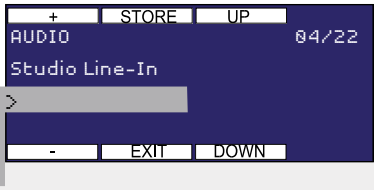


> English
> German
> ...

Fixes the language setting of the megaVoice system.
The following languages are fully supported:
GB,RU,DE,FR,IT,PL,CZ,NL,HU,BG,HR,RO,RS,SK
The following languages are supported in part:
DK,EE,LT,NO,ES,SE,TR (without easyCare)

Factory setting: Depending on the operator country

19

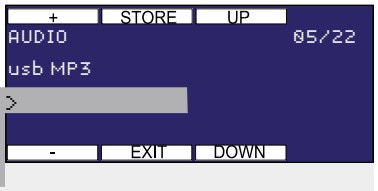


> on
> off

Activates and deactivates the Studio (line-in) audio signal.

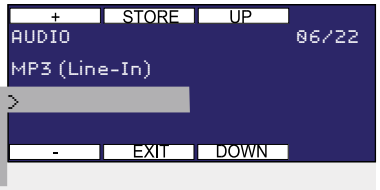
Factory setting: on

20



Not available in this system.

21

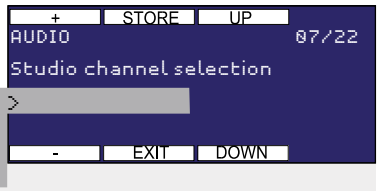


> on
> off

Activates and deactivates the line-in connection (bench part, right-hand side of the head end) for units from standard-line level to low loudspeaker levels (MP3 player, iPod, etc.).

Factory setting: on

22

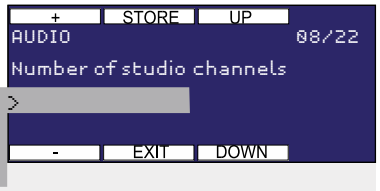


> bcd
> puls code
> off

Allows for the change-over between pulse-code and BCD-code mode with the Studio signal pending and deactivates the external-channel selection.

Factory setting: bcd

23



> 2
> 4

If bcd has been preselected, the number of channels available in the studio is specified here.

Factory setting: 4

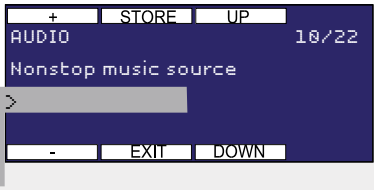
24

> on
> off

If this function is active, music is played nonstop, i.e. also out of tanning sessions.

Factory setting: off

25

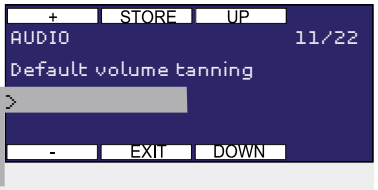


> MP3-internal
> Studio Line-In

Allows for choosing the permanent audio source for the “Music nonstop” function“.

Factory setting: MP3-internal

26

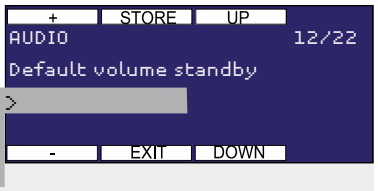


> 0 . . . 9

Sets the volume for the tanning mode.

Factory setting: 6

27

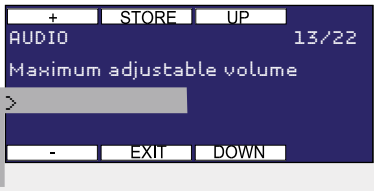


> 0 . . . 9

Sets the volume for the standby mode.

Factory setting: 3

28

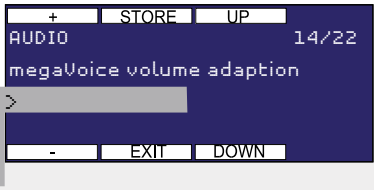


> 5 . . . 9

Presetting the maximum adjustable sound level, limits the maximum adjustable sound level in the operating and standby mode.

Factory setting: 9

29



> -09 . . . +09 dB

Here you can adapt the volume of megaVoice.

Factory setting: +00 dB

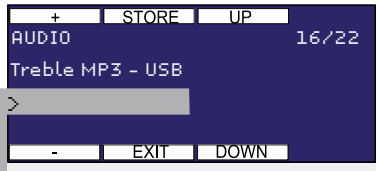
30

> on
> off

Dynamic volume adaption on-/off.

Factory setting: on

31



> -14 . . . +14 dB

Sets the treble for MP3 - USB operation.

Factory setting: 00 dB

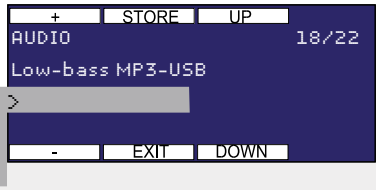
32

> -14 . . . +14 dB

Sets the high-bass for MP3 - USB operation.

Factory setting: 00 dB

33

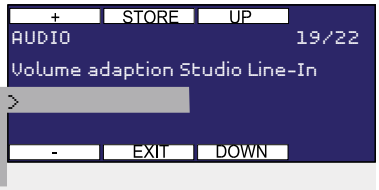


> -14 . . . +14 dB

Sets the low-bass for MP3 - USB operation.

Factory setting: +07 dB

34

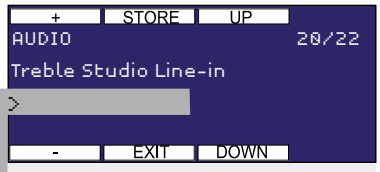


> -29 . . . +29 dB

Here you can adapt the volume of studio line-in signal.

Factory setting: +00 dB

35

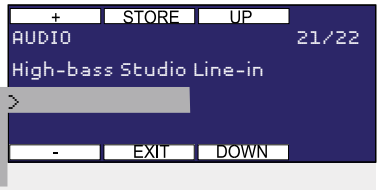


> -14 . . . +14 dB

Sets the treble for studio music operation.

Factory setting: 00 dB

36

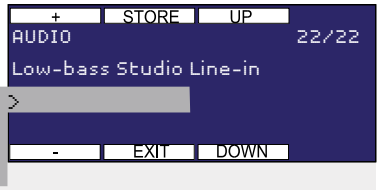


> -14 . . . +14 dB

Sets the high-bass for studio music operation.

Factory setting: 00 dB

37

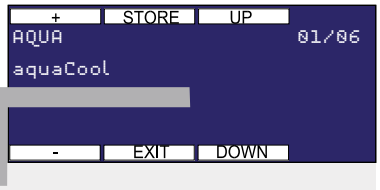


> -14 . . . +14 dB

Sets the low-bass for studio music operation.

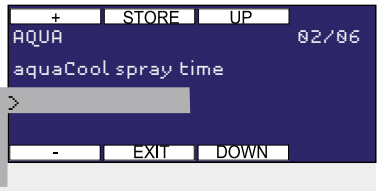
Factory setting: +07 dB

38



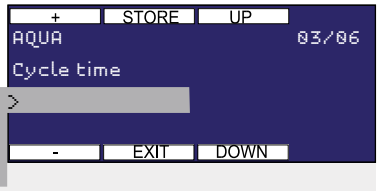
Not available in this system.

39



Not available in this system.

40

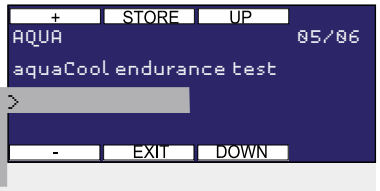


Not available in this system.

41

Not available in this system.

42

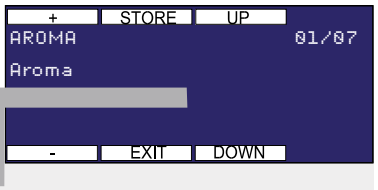


Not available in this system.

43

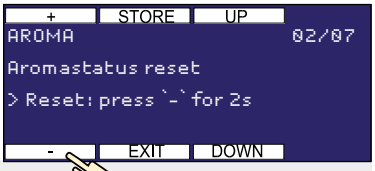
Not available in this system.

44



Not available in this system.

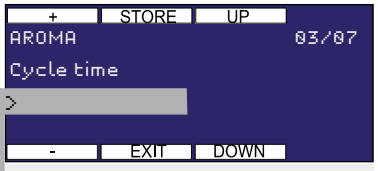
45



2 sec. = reset

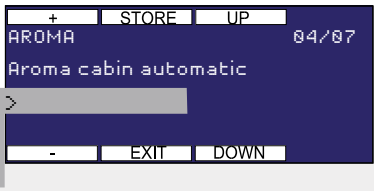
Not available in this system.

46



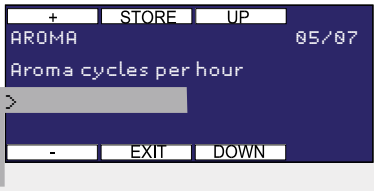
Not available in this system.

47



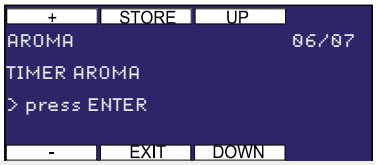
Not available in this system.

48



Not available in this system.

49

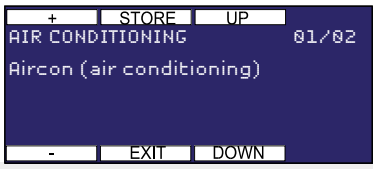


Not available in this system.

50

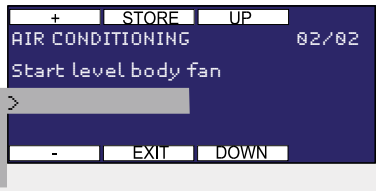
Not available in this system.

51



Not available in this system.

52

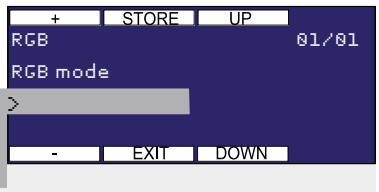


> 1 . . . 9

Specifies the “start speed” setting of the body fan at the beginning of the tanning.

Factory setting: 2

53



> 0 . . . 9

Only for devices with LED technology.

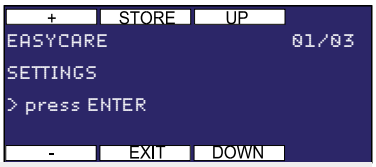
fourSeasons - setting options from 0 to 9:

0 = off / 1-8 = Permanent colour selection

9 = Rotation (automatic change of colour in a cycle of 15 seconds)

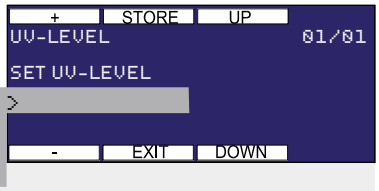
Factory setting: 9

54



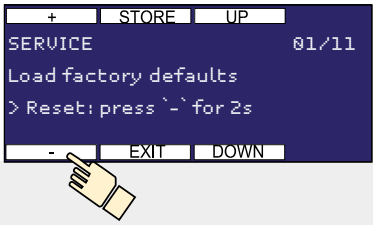
Not available in this system.

55 PERSONAL PIN



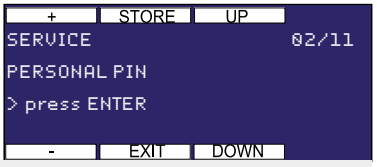
These settings must only be made by trained service personnel!

56 PERSONAL PIN



Loads the factory (default) settings.

57 PERSONAL PIN



Submenu call
with START/ENTER.

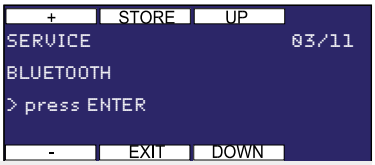
SUBMENU

PERSONAL PIN

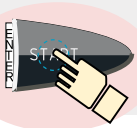
PERSONAL PIN activate / deactivate

Enter your personal PIN.

PERSONAL PIN



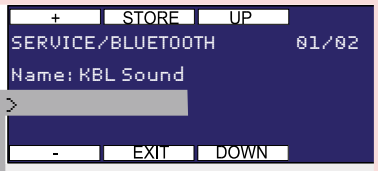
Submenu BLUETOOTH.
Invoked by pressing
START (ENTER).



SUBMENU
BLUETOOTH

Name ⑱
Powerlevel ⑲

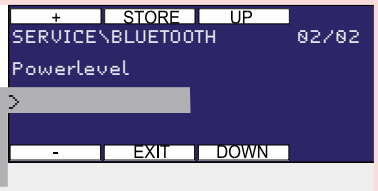
58



To fit your Studio environment (multiple units) different numbers can be added to the bluetooth device name (megaSun xx) of each solarium.

Factory setting: 01

59



Sets the transmission power for bluetooth.
Factory setting: 1

60

Submenu call with START/ENTER. Displays the current firmware typ / variant.

61

Submenu call with START/ENTER. Displays the current firmware version of the system components.

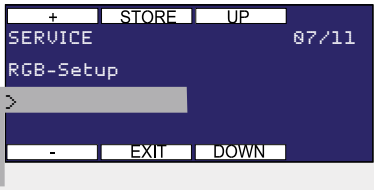
Do not operate the system with different firmware versions!

- **All system components must be equipped with an identical firmware version.**

62

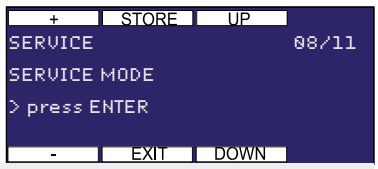
Submenu call with START/ENTER. Displays the first and the last Software-Upload.

63

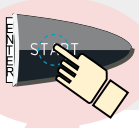


Not available in this system.

PERSONAL PIN



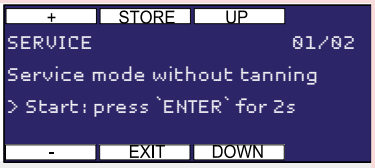
Submenu SERVICE MODE.
Invoked by pressing
START (ENTER).



SUBMENU
SERVICE MODE

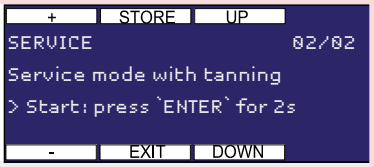
Service mode without tanning ⑭
Service mode with tanning ⑮

64



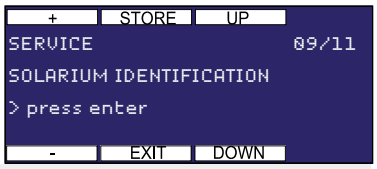
Troubleshooting mode.
The service mode is switched on for 30 minutes. The mains voltage is connected. Error notifications are ignored, but tanning cannot be started.

65



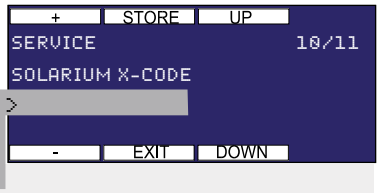
Troubleshooting mode.
The service mode is switched on for 10 minutes. The mains voltage is connected. Error notifications are ignored, tanning can be started. After this period, there is a 3 minute restart lockout.

66



Show the characteristics of the device:
- Configuration code
- Variant code
- Serial number

67

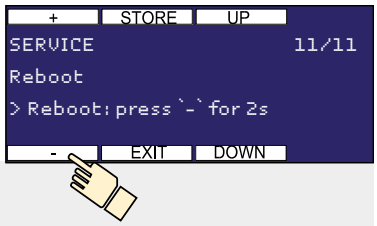


> PIN:

Branches to further configuration options.

These settings must only be made by trained service personnel!

68

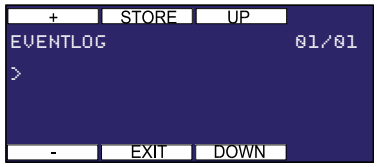


Performs a restart of the electronics.

Attention

- **All unsaved changes will be discarded!**

69



Lists the latest 99 events (error codes & info-messages). Detailed information is available by pressing the Start button.
Example:

no.	time	date	code	tanning time
001	16:44	05.01.09	0011	03:23
002	15:22	05.01.09	0002	07:22
003	10:07	22.12.08	....	....
004	17:16	....		
005	....			
....				
099				

Maintenance and cleaning

Regular maintenance is required for the safe operation of the towers and has to be documented. Cleaning is to be performed when necessary.

DANGER

Live parts

Risk of fatal injury due to electric shock when touching live parts.

- **Disconnect from mains and secure against reconnection!**

- **USE ONLY ORIGINAL SPARE PARTS.**
- Replace illuminants and filters only with ones wich are characterized on the device.

Instructions for cleaning and care

GENERAL

Before starting to clean the unit, take off any rings, bracelets, watches, etc. that you might be wearing in order to avoid scratching the surfaces.

Cleaning fluid must not run into the appliance.

TUBES

To preserve the tanning power, we recommend cleaning the tubes and UV lamps with warm water and a chamois after approx. 200 hours of operation.

ACRYLIC PANES

For cleaning the acrylic panes, use the special cleansing agent and disinfectant “megaClean“ supplied by KBL and dilute it in water at a ratio of 1:13.

VARNISHED AND PLASTIC PARTS

To clean the varnished and plastic surfaces, use a damp soapy cloth.

Do not clean the big plastic parts with a dry cloth. This might scratch the surfaces!

To clean the PMMA plastic surfaces of the door and the mirror plate of the floor, proceed as follows: Use a damp chamois and spray megaClean onto it sparingly. Then wipe the surfaces clean. NEVER CLEAN WITH A DRY CLOTH!

Prevent the corners and edges from getting wet.

CLEANING AGENTS

The surfaces and the acrylic panes must not be cleaned with concentrated disinfectants or solvents or other liquids that contain alcohol!

Maintenance intervals

Component/ wearing part	Cleaning	Replacement
Tubes and starters	Tubes after approx. 200 operating hours	After 500 operating hours
Acrylic panes	When necessary	When necessary
Colour filters of unit lighting	When necessary	Whenever UV tubes are replaced

Cleaning and replacing the acrylic panes

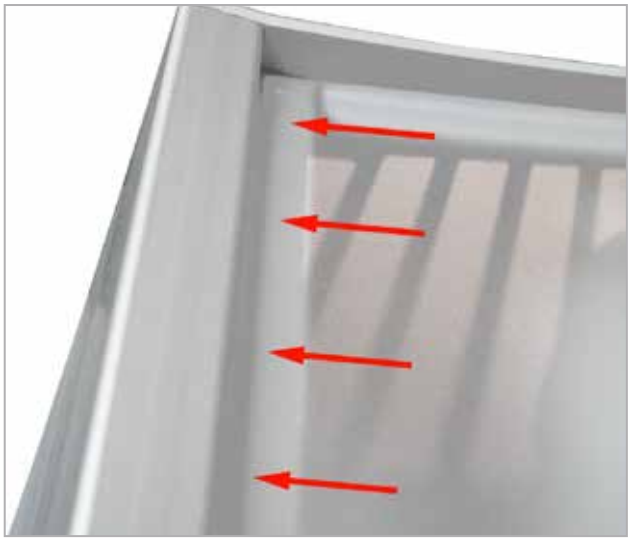
The acrylic panes can exhibit small inclusions and reams. During operation hairline cracks can also develop. This does not affect or hardly affects the tanning properties and does not represent a quality flaw. The panes are cleaned whenever necessary. When cleaning the inside, it is recommended to take the occasion and clean the tubes, too. The instructions for cleaning and care must be observed. The outer surface can be cleaned without any preparatory works.

The panes are dismantled as follows:

Push the pane centrically towards the tubes (e.g. with your elbow) and pull the upper right-hand corner of the pane out with the help of the suction cup.

Take hold of the pane from behind and release the right-hand side in a downward movement. The pane can then be removed.

To install the pane, insert its entire left-hand side and press it against the aluminium section.



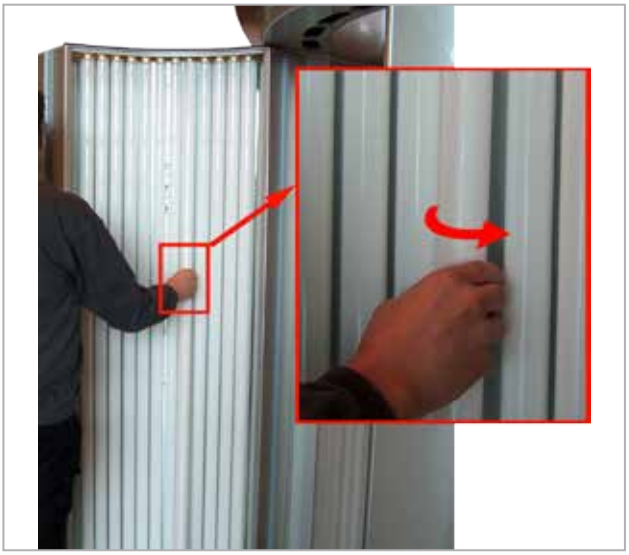
Bend the pane and push it over the right-hand edge of the aluminium section. Due to the pane being bent, it rests in its position.

Cleaning and replacing the tubes

By regularly cleaning the tubes (see *Cleaning and care instructions*) you can help preserve their tanning power. When replacing the tubes, you must also replace the starters. Replace tubes and starters only against ones of the same type. The colour filter of the unit lighting must be replaced whenever the tube is replaced.

Dismantle the acrylic panes as it is described in the section “Cleaning and replacing the acrylic panes”.

Dismantle the tubes by turning each tube a quarter turn towards the front or towards the back and then pulling it out.



To clean the tubes, use warm water and a chamois. Do not use any aggressive detergents or agents containing alcohol.

When installing new tubes, replace the starters first.

Installing the tubes: Make sure that the inscription on the tubes is visible, for otherwise, there will be no tanning effect.

The assembly is carried out in reverse order. Reset the operating hours counter in the service menu.

Replacing the unit lighting

If the device is lighted by means of high-performance-LED‘s (Four Seasons), these can only be replaced by a qualified specialist if they are defective. In this case, contact the service department!

If the device is lighted by means of fluorescent lights, proceed as follows:

Tubes are located in the door and in the side parts to illuminate the device. The color filter must be changed along with the tubes at the latest.

DOOR

Loosen the door facing at one corner and slowly pull it forward with the aid of a suction cup.

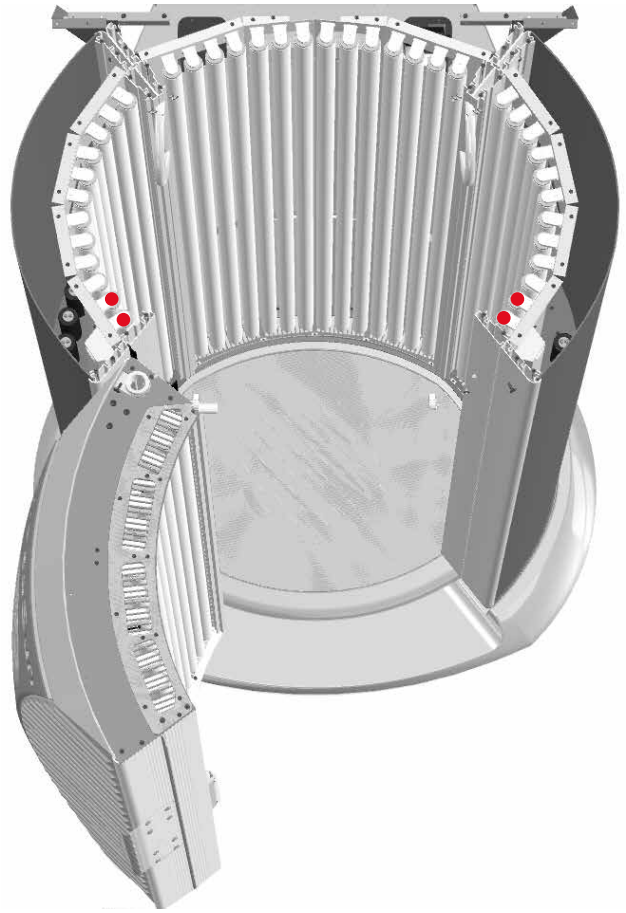
Loosen the two screws of the door panel and lift the panel carefully out of the side guides.

Caution!
Place the door panel carefully on a padded surface.

There are 2 decorative tubes beneath the door panel. Turn the tube a quarter turn to the right and take it out towards the front. Replace the tube, the colour filter (if present) and the starter. Fasten door panel and door facing again.

LATERAL PARTS

Dismantle the acrylic pane in the respective lateral part as described in section “Cleaning and replacing the acrylic panes”.
Remove the two front tubes in the left and right lateral part (they are marked in the illustration below). Underneath you will find the lighting equipment.



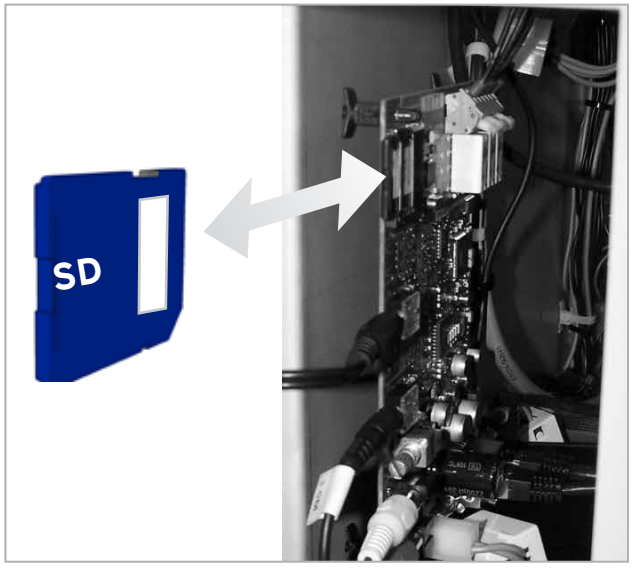
Replace the lighting tube and, if present, the colour filter, with new parts.

Re-install the UV tubes and the pane.

Recording to an SD card

REMOVING THE SD CARD

The SD card slot which contains the storage medium with the MP3 data from the internal MP3 player is accessible through a maintenance hatch on the left hand side of the tower.



Please refer to the chapter “Technical data” for information regarding supported card sizes as well as file-system and MP3 formats. The card contains two directories: Pop and Voice. Within the Pop directory, you can add or delete audio files as you desire. These audio tracks are played if the corresponding source has been selected. The number of files is limited by the storage capacity of the SD card. The SD card must not be formatted, the Voice directory and its contents must not be changed or deleted.

RECORDING TO THE SD CARD

Attention!

- Do not modify any files other than those included in the POP directory!

- Insert the card into the computer and wait for it to be recognised.
- Copy files to the Pop directory, or delete files from it.

System messages

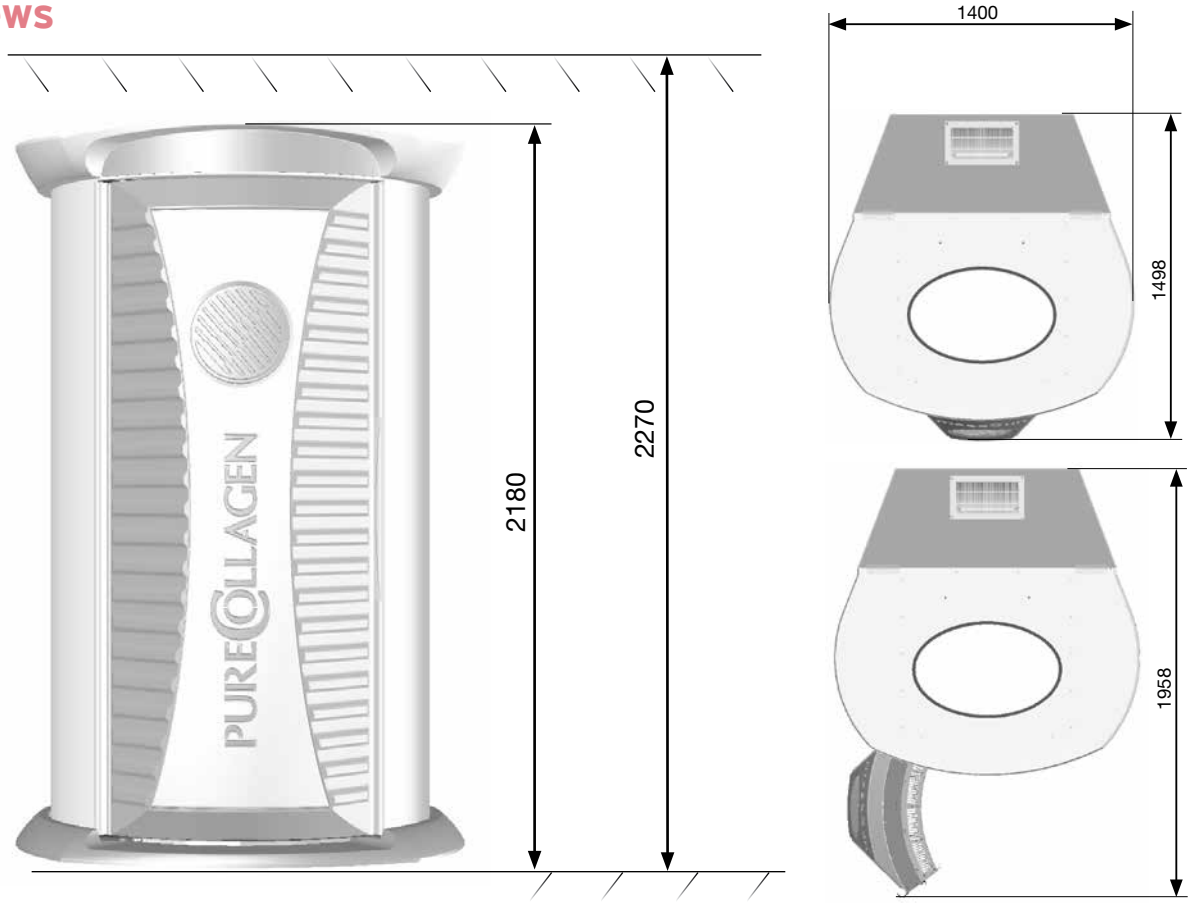
ERROR MESSAGES			
After the error has been eliminated, all error messages must be acknowledged by pressing **START** on the interior display.			
No.	Status message	Description	Remedy
01	Excess temperature bimetal	Bimetal switch triggers.	Check the air-intake/air-discharge system. Let the sunbed cool down.
02	Maximum tanning time!	Enabling signal from coin-box system comes in longer than the time value approved under “Maximum tanning time” (voltage remains connected)	Disconnect from the coin-box system.
03	Excess temperature exhaust fan!	Bimetal switch in the fan triggers.	Make sure the fan runs freely. Check the air-intake/air-discharge system. Let the sunbed cool down.
12	KBL7 Hardware error Input-Controller	Mainboard defective.	Contact your Customer Service.
13	Maximum write cycle flash memory reached	Maximum write cycle flash memory reached.	Contact your Customer Service.
14	Error! SD card read error (CRC fault)	Update via SD card failed (CRC fault).	SD card check / replace.
15	Error! no access to the SD card	Update via SD card failed (access error).	SD card check / replace
17	Parameter storage not found, please connect and restart	Parameter storage not found, please connect and restart.	Check connector parameter storage. If necessary replace parameter storage.
18	Parameter storage no valid serial number	Parameter storage no valid serial number.	Contact your Customer Service.
19	CAN-BUS: Interior display V1 is incompatible	CAN-BUS operators incompatible.	Use CAN-BUS operaters V2.
20	CAN-BUS: preSelection display V1 is incompatible		
21	CAN-BUS: audio module full V1 is incompatible		
22	CAN-BUS: RGB module V1 ist incompatible		
23	Parameter storage write error	Parameter storage write error.	Check connector parameter storage. If necessary replace parameter storage.
24	Parameter storage read error	Parameter storage read error.	Check connector parameter storage. If necessary replace parameter storage.
25	Frequency detection: detection failed!	Frequency detection failed.	Restart the controller. Contact your Customer Service after the third unsuccessful restart.
26	Frequency detection: power supply connection faulty (connector X6/E6)!	Frequency detection failed. No mains voltage.	Check mainboard connector X6/E6.

INFORMATION MESSAGES			
No.	Info. message	Description	Remedy
205	Connection audio module faulty	Communication between control and module / display has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
206	Connection inside display faulty		
210	Low battery charge, please renew	Button cell (CR-2032) of the control board discharged.	Replace the button cell (CR-2032).
212	Connection RGB module faulty	Communication between control and bus module has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
213	SD card missing	No SD card in the audio module.	Insert an original SD card. See chapter: Recording to an SD card/Removing the SD card.
214	SD card unreadable	SD card defective, incompatible content.	Insert a new original SD card. Acknowledge the message by pressing START. See chapter: Recording to an SD card/Removing the SD card. If the fault persists, contact your Customer Service.
216	Error voltage supply, please check	Power supply to the mainboard varies	Check power supply to the mainboard.
217	No voice files on the SD card, pleas check.	No voice files on the SD card found.	Rebuild voice folder on the SD card. If necessary replace original SD card.
220	OW to many sensors	General OneWire sensor error.	Contact your Customer Service.
221	OW sensor Typ B missing		
222	OW sensor Typ S missing		
223	OW sensor read error		
224	Check tubes and temperature sensor in the door (delta>12)	Temperature difference to high - between the one wire sensors.	Check tubes and thermal sensors in the door. Contact your Customer Service.
228	Check tubes and temperature sensor in the door (temp<30)	Minimum temperature is not reached or is fallen below in operation mode.	Check tubes and thermal sensors in the door. Contact your Customer Service.
229	Pleas close the door, check exhaust air	Temperature rise of 1,5 degrees in 18 seconds.	Close door. Check exhaust air.

Technical Data

Ambient conditions	
Installation site	In dry rooms (booths) with sufficient airing and ventilation • max. Relative air humidity: ≤ 70 % • max. Room temperature: ≤ 30 °C • Minimum height of the room: 2270 mm
Electrical connection values	
Protective class	IP 20
Mains voltage	400 V / ~ 3 N / 50 Hz
Wire cross section	5 x 2,5 mm^2 Ölflex
Fuses	Automatic fuse K-type (safety cut-out), 3-pole, 3x 25 A with residual current-operated circuit breaker (FI)
Nominal power	10500 W
Air discharge (optional feature)	
Fan	Diameter 300 mm, Minimum capacity (exhaust air) 2000 m^3/h
Exhaust-air hose	Diameter 300 mm
Unit data tower mon amie - UV type III and 0.3 W/m^2 in compliance with EN 60335-2-27	
Tubes	26x Collagen plus 1.9/18 - Item no: 3230074786 26x ultimate 1901 R 180W - Item no: 3230076115 Equivalence key range: 180-R-(24-32) / (2,1-2,9)
Dimensions in mm (Height x Width x Depth)	2180 +10 x 1400 +5 x 1498 +5 (closed) 2180 +10 x 1400 +5 x 1958 +5 (opened)
Weight	approx. 385 kg
MP3 player	• Supports SD cards up to 1-2 GB (SD) / 4-16 GB (SDHC) • Supported file system (SD card): FAT16, FAT32 • Supported MP3 files: constant and variable bit rate, 96-320 Kbit/s

Views



EQUIVALENCE KEY FOR UV FLUORESCENT LAMPS

Marking of UV fluorescent lamps according to IEC 61228

Sample coding of a lamp

160-R-32 / 3,2

Use of replacement tubes.
The tanning tables referring to this sunbed are only valid as long as the system is operated with the original tube set!

- Ratio of the NMSC-effective UV irradiance ≤ 320nm und > 320nm (NMSC = Non Melanom Skin Cancer)
- Erythema-effective UV irradiance in the range of 250-400nm in mW/m²
- Reflector types
  - O - For lamps without reflector
  - B - For lamps with reflector angles wider than >230°
  - N - For lamps with reflector angles narrower than <200°
  - R - For lamps with usual reflector angles of ≥200° ∧ ≤230°
- Indication of Watts (electrical power)

Remarks

Remarks

Remarks

Tower *mon amie*

KBL AG
Ringstraße 24-26 · 56307 Dernbach · Germany
fon +49 (0) 26 89.94 26-0 · fax +49 (0) 26 89.94 26-66
E-Mail mon-amie@kbl.de

www.kbl.de